

## MANUFACTURE OF LIGHT CONDUCTION PLATE WITH PRISM SHAPE

**Publication number:** JP11147255 (A)

**Publication date:** 1999-06-02

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**Classification:**

- international: **G02B6/00; B29C43/22; B29C59/04; G02B5/04; G02F1/1335; G02F1/13357; G09F9/00; B29K101/12; B29L11/00; G02B6/00; B29C43/22; B29C59/04; G02B5/04; G02F1/13; G09F9/00;** (IPC1-7): B29C59/04; G02B5/04; G02B6/00; G02F1/1335; G09F9/00; B29K101/12; B29L11/00

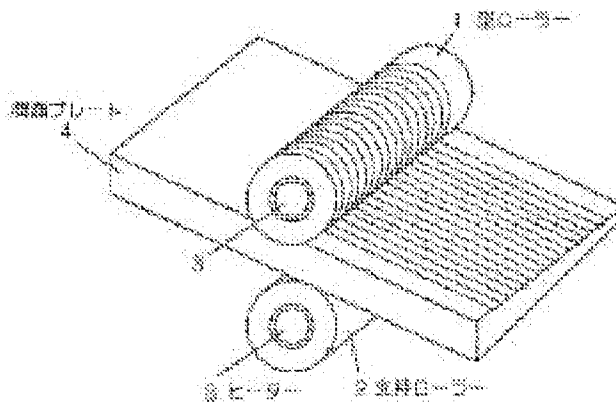
- European: B29C43/22B; G02B6/00L6O4G; G02B6/00L6P

**Application number:** JP19970317936 19971119

**Priority number(s):** JP19970317936 19971119

### Abstract of JP 11147255 (A)

**PROBLEM TO BE SOLVED:** To form a fine highly precise prism shape with low pressure small sized equipment by a method wherein a thermoplastic resin plate member is pinched between a pattern roller having a heater built-in and a support roller, pressurized, and a fine shape engraved on an outer peripheral surface of the pattern roller is formed by transferring onto a surface of the resin plate member. **SOLUTION:** A prism shape is engraved on a surface of a pattern roller 1, and a support roller 2 and the pattern roller 1 are made to contain a heater 3. A thermoplastic resin plate 4 made an individual piece is made the individual piece by specific dimensions by high speed cutting with, for example, a rotary edge tool from the resin plate manufactured in a large plate. The pattern roller 1 and the support roller 2 respectively have a cylindrical space part capable of holding a cylinder type electric heater 3 in an inner peripheral part, are installed at bearing both ends, and a V pulley is installed to the end part. Then, the thermoplastic resin plate member 4 is pinched between the pattern roller 1 and the support roller 2, pressurized, and a fine shape engraved on the outer peripheral surface of the pattern roller 1 is formed by transferring onto a surface of the resin plate member 4.



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